

**DICYANOPYRAZINE DERIVATIVE AND ITS PRODUCTION**

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**Abstract**

**PURPOSE:** To provide a new dicyanopyrazine derivative useful as a synthetic raw material for tetrapyrazinoporphyrazine which is useful as an agrichemicals, pharmaceuticals, intermediate for agrichemicals and pharmaceuticals, optical recording material, photoelectric conversion material, etc., and as a fluorescent pigment, etc.

**CONSTITUTION:** The compound of formula I [R<1> and R<2> are H, alkyl or aryl; R<3> and R<4> are alkyl, alkenyl or alkynyl; A is halogen or XR<5> [X is O, S or NR<6> (R<6> is H, alkyl, alkenyl, alkynyl or aryl); R<5> is H, alkyl, alkenyl, alkynyl or aryl], R<1> and R<2>, R<1> and R<3> or R<4>, R<2> and R<3> or R<4>, or R<3> and R<4> may together form an (O or S-containing) ring], e.g. 5-chloro-6-[2-(N,N-diethylamino)-1-vinyl]-pyrazine-2,3-dicarbonitrile. The compound of formula I wherein A is Y (Y is halogen) can be produced by reacting a compound of formula II with a compound of formula III.

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